

ABSTRACT

The invention concerns an electric motive power system for a motor vehicle comprising a fuel cell (2) having at least one set of two electrodes (9, 10) each provided with an electrode input and output, an electrolytic membrane (11) located between the two electrodes (9, 10). The invention is characterized in that the electrolytic membrane (11) comprises proton conductive charges distributed in the thickness of the membrane (11) in accordance with a concentration gradient, so as to concentrate the water in liquid form produced by the fuel cell (2) on one of the electrodes (9, 10), and in the water in liquid form thus concentrated is evacuated from the fuel cell (2) through a single electrode output (14, 15).